

MATERIAL CODE NUMBER	RDB-SD
CLASSIFICATION	ASTM C-27 ---- super-duty brick
SERVICE REQUIREMENTS	A super-duty quality brick with excellent resistance to abrasion, spalling, and chemical attack
METHOD OF MANUFACTURE	Dry-press
QC TESTING FREQUENCY	

PROPERTY	ASTM DESIGNATION	SPECIFICATION VALUE
PCE		33 - 34
Density lbs/ft ³	C-20	135-142
Modulus of Rupture - psi	C-133	850 - 1200
Reheat Test - at 2900°F - %	C-113	-0.2 to -2.5
Cold Crushing Strength* - psi	C-133	2500 to 3500
Apparent Porosity - %	C-20	16 - 19
Thermal Cond. @ 815° mean temperature. K: Btu in/(h-ft ² °F) -	C-201 and C417, Ascending Curve Max	
Chemistry (Composition %)		
Al ₂ O ₃		42.1
Fe ₂ O ₃		1.2
Si ₂ O ₃		53.6
Ti O ₂		2.0
P ₂ O ₅		.5
Alkalies		.6